

CLAIMS

1. Closure device (100; 200; 300) intended to be mounted on an opening (41) of a fluid product reservoir (4),  
5 said device being formed as a single piece by injection moulding plastic material and comprising:

- a fixing member (110; 210; 310) intended to cooperate with the reservoir opening to form a sealed attachment,

- a dispensing duct (120; 220; 320) forming an outlet  
10 passage (121; 221; 321) for the fluid product contained in the reservoir, said duct forming a dispensing orifice (122; 222; 322),

- a closing member (13; 23; 33) to close and seal said duct, said closing member being joined to the dispensing duct  
15 (120; 220; 320) by at least one bridge of material (132; 232; 332) intended to be broken when the closing member is first removed, characterized in that said closing member (130; 23; 33) comprises a sealable part (131; 231; 234; 331; 334) said sealable part, before sealing, leaving the dispensing orifice  
20 clear and, after sealing, closing the dispensing orifice in sealed manner (122; 222; 322).

2. Closure device as in claim 1, wherein the closing member (13; 23; 22) said dispensing duct (120; 220; 320) and  
25 said at least one bridge of material (132; 232; 332) are formed as a single piece.

3. Closure device as in claim 1, wherein the sealable part is deformable and can be welded to itself.

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4. Closure device as in claim 1, 2 or 3 wherein the sealable part comprises a fixed element (231; 331), connected to the duct by at least one bridge of material, and a sealing

cap (234; 334) intended to be fixed irremovably on the fixed element, said cap closing and sealing the dispensing orifice.

5        5. Closure device as in claim 4, wherein the cap is connected articulated fashion to the fixed element.

6. Closure device as in claim 5, wherein the cap and the fixed element are formed as a single piece.

10       7. Closure device as in any of claims 4 to 6, wherein the cap is welded onto the fixed element.

8. Closure device as in any of claims 4 to 7, wherein the cap forms a sealing bush (238; 338) intended to come into  
15       sealed contact with the duct (220; 320) for its sealed closing.

9. Closure device as in any of the preceding claims wherein the bridge of material (332) extends continuously  
20       around a duct (320) also forming a sealed junction between the duct (320) and the closing member (33).

10. Closure device as in any of the preceding claims wherein the closing member (130; 23; 33) comprises a  
25       peripheral sleeve connected at one end to the outside of the duct by said at least one bridge of material, said sleeve comprising an opposite peripheral end forming the sealable part (131; 231; 331).

30       11. Closure device as in any of the preceding claims wherein the duct and the closing member are provided with snap-fit means (123; 133; 223; 233; 323; 333) intended to

cooperate after the breaking of said at least one bridge of material.

12. Closure device as in claim 11 wherein the snap-fit  
5 means (123; 133) form sealing means closing the duct.

13. Closure device as in any of the preceding claims  
wherein the fixing member comprises a fixing appendage (110;  
210; 310) on which the opening (41) of a flexible pouch (4) is  
10 intended to be fixed, advantageously by welding.